

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529782

Luminaire Tested: **GALN-SA5A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16906 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

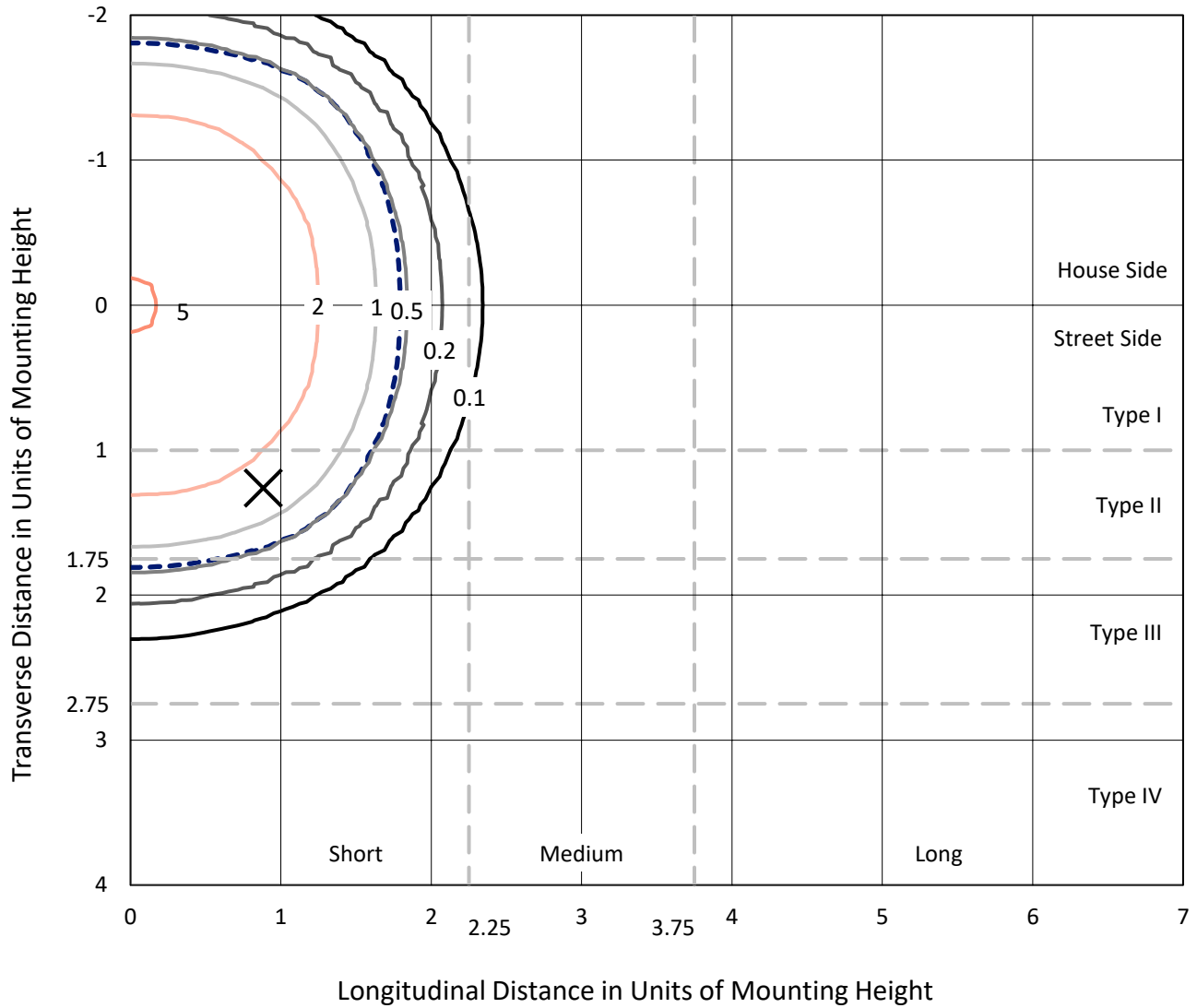
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

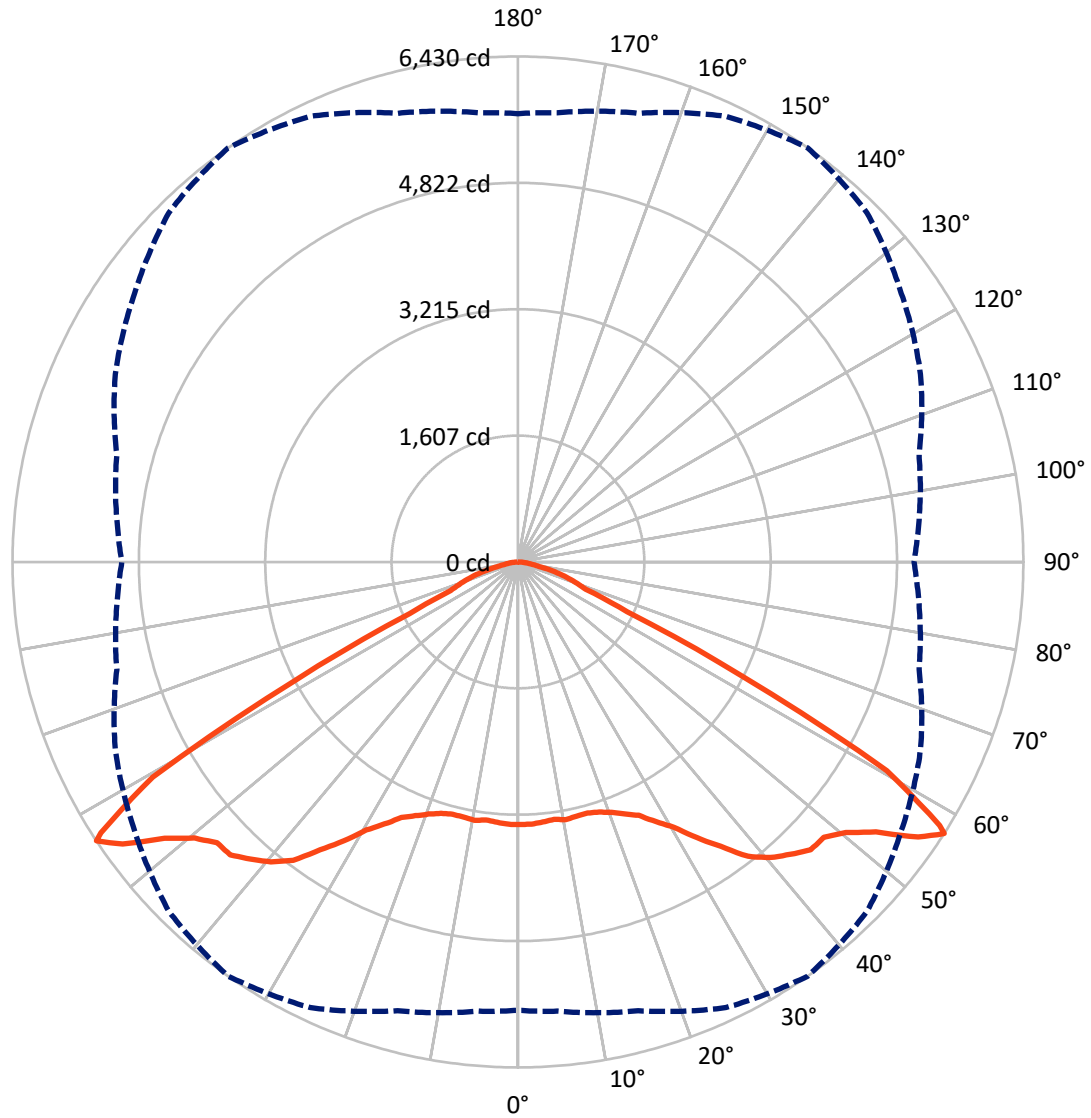
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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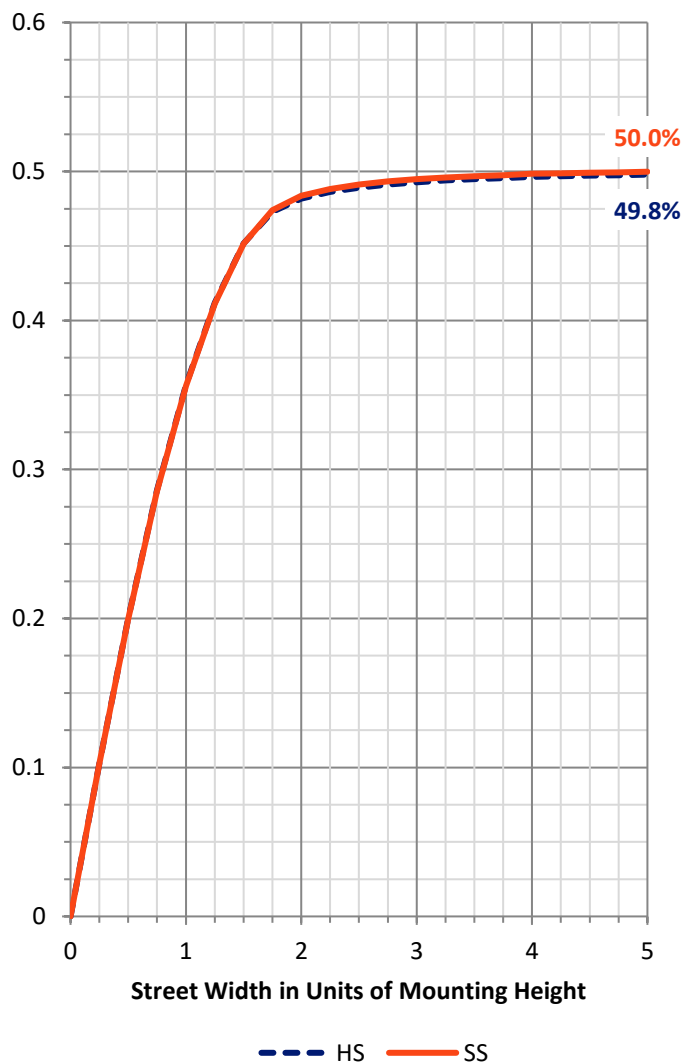
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8453.0	0.0	8453.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8453.0	0.0	8453.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16906.0	0.0	16906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	1.9
10°-20°	937.5	5.5
20°-30°	1637.3	9.7
30°-40°	2682.7	15.9
40°-50°	3933.6	23.3
50°-60°	4954.6	29.3
60°-70°	1863.4	11.0
70°-80°	495.5	2.9
80°-90°	85.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16906.0	100.0
0°-180°	16906.0	100.0

Coefficient of Utilization



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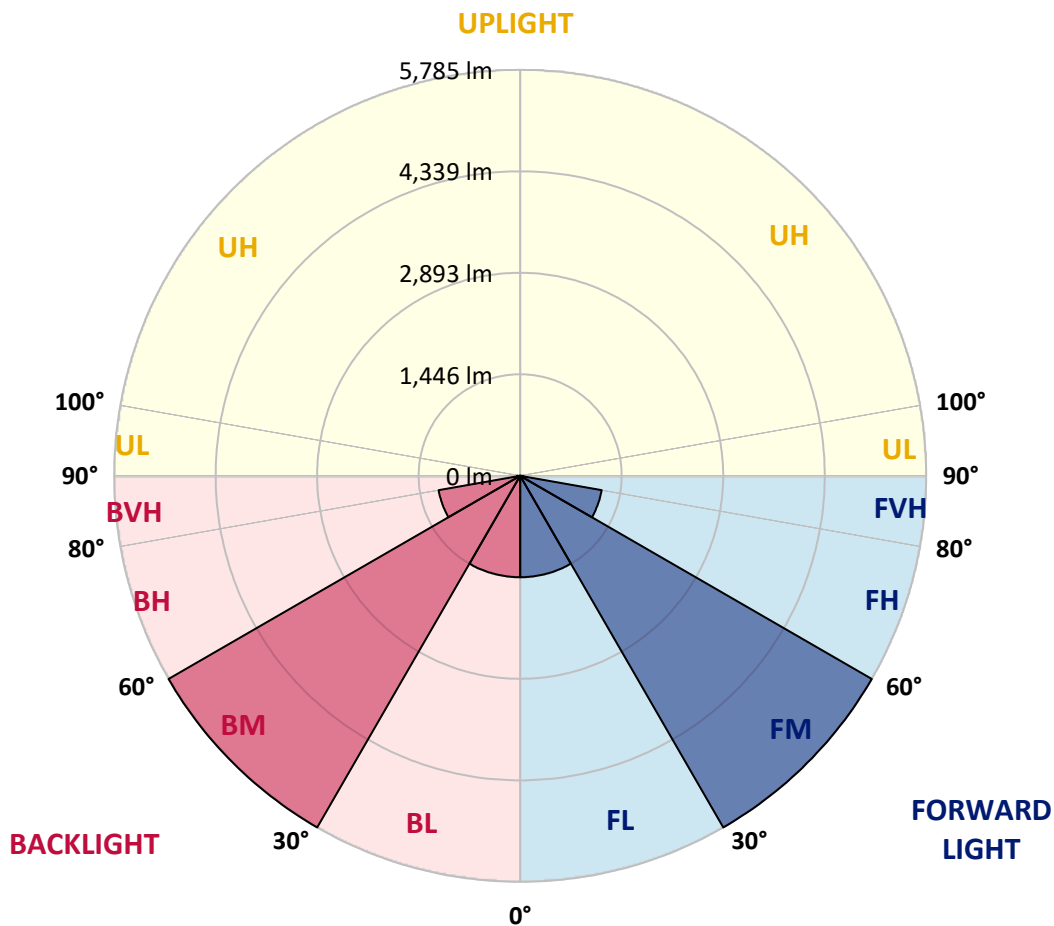
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.6	8.6			
FM (30°-60°)	5785.5	34.2			
FH (60°-80°)	1179.4	7.0			G1/1800
FVH (80°-90°)	42.5	0.3			G1/100
BL (0°-30°)	1445.6	8.6	B3/2500		
BM (30°-60°)	5785.5	34.2	B4/8500		
BH (60°-80°)	1179.4	7.0	B3/2500		G1/1800
BVH (80°-90°)	42.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8	3338.8
2.5°	3322.1	3355.5	3340.9	3332.6	3338.8	3328.4	3311.7	3330.5	3326.3	3309.7	3303.4
5°	3313.8	3338.8	3322.1	3338.8	3322.1	3351.3	3343.0	3311.7	3349.2	3313.8	3326.3
7.5°	3307.6	3315.9	3320.1	3311.7	3305.5	3340.9	3322.1	3307.6	3286.7	3280.5	3290.9
10°	3293.0	3313.8	3282.6	3324.2	3332.6	3307.6	3307.6	3280.5	3263.8	3253.4	3288.8
12.5°	3330.5	3295.1	3290.9	3311.7	3318.0	3328.4	3299.2	3284.7	3253.4	3257.6	3251.3
15°	3286.7	3301.3	3303.4	3307.6	3313.8	3338.8	3311.7	3280.5	3268.0	3224.3	3228.4
17.5°	3303.4	3288.8	3303.4	3351.3	3343.0	3361.7	3332.6	3284.7	3255.5	3230.5	3263.8
20°	3332.6	3326.3	3332.6	3390.9	3401.3	3418.0	3393.0	3349.2	3293.0	3263.8	3280.5
22.5°	3363.8	3359.6	3363.8	3420.0	3480.4	3501.3	3476.3	3374.2	3345.1	3290.9	3272.2
25°	3420.0	3424.2	3467.9	3530.4	3570.0	3609.6	3563.8	3490.9	3397.1	3363.8	3324.2
27.5°	3545.0	3555.4	3580.4	3672.1	3740.8	3776.2	3711.6	3611.7	3553.3	3484.6	3474.2
30°	3699.1	3699.1	3742.9	3822.0	3915.8	3969.9	3890.8	3772.0	3701.2	3663.7	3640.8
32.5°	3903.3	3880.4	3897.0	4036.6	4182.4	4228.2	4122.0	3976.2	3863.7	3813.7	3797.0
35°	4078.2	4092.8	4130.3	4280.3	4442.7	4548.9	4382.3	4192.8	4078.2	4032.4	4024.1
37.5°	4305.3	4330.2	4349.0	4555.2	4751.0	4790.6	4630.2	4478.1	4338.6	4301.1	4280.3
40°	4626.0	4609.3	4615.6	4767.6	4944.7	4969.7	4811.4	4703.1	4588.5	4565.6	4565.6
42.5°	4890.5	4871.8	4892.6	4948.9	5084.2	5065.5	4978.0	4898.9	4851.0	4826.0	4851.0
45°	5050.9	5046.7	5084.2	5125.9	5221.7	5159.2	5090.5	5103.0	5057.2	5015.5	5013.4
47.5°	5225.9	5198.8	5244.6	5307.1	5234.2	5205.0	5200.9	5228.0	5213.4	5140.5	5117.6
50°	5311.3	5300.9	5373.8	5446.7	5407.1	5340.4	5355.0	5398.8	5211.3	5113.4	5057.2
52.5°	5540.4	5542.5	5682.0	5721.6	5704.9	5607.0	5638.3	5519.6	5298.8	5161.3	5167.6
55°	5900.7	5886.1	6042.4	6159.0	6177.7	6052.8	5902.8	5736.2	5459.2	5319.6	5277.9
57°	5702.8	5736.2	5909.0	6254.8	6429.8	6281.9	5954.9	5650.8	5282.1	5113.4	5038.4
57.5°	5438.3	5492.5	5792.4	6140.2	6323.5	6311.0	5890.3	5492.5	5163.4	4900.9	4907.2
60°	3984.5	3994.9	4265.7	4817.6	5390.4	5402.9	4890.5	4363.6	3997.0	3711.6	3751.2
62.5°	2101.6	2149.5	2257.8	2701.5	3197.2	3318.0	3007.6	2736.9	2420.3	2203.7	2224.5
65°	1112.2	1106.0	1158.1	1283.0	1526.7	1589.2	1547.6	1333.0	1222.6	1187.2	1189.3
67.5°	904.0	914.4	908.1	914.4	931.0	958.1	951.9	960.2	966.4	976.9	974.8
70°	766.5	766.5	770.7	772.7	772.7	785.2	799.8	826.9	829.0	839.4	843.6
72.5°	604.0	599.9	606.1	620.7	622.8	633.2	654.0	670.7	676.9	676.9	664.4
75°	410.3	414.5	422.8	435.3	447.8	466.6	483.2	493.6	497.8	491.6	485.3
77.5°	231.2	235.4	241.6	260.4	274.9	291.6	310.3	320.8	331.2	333.3	320.8
80°	137.5	137.5	147.9	162.5	179.1	195.8	212.5	224.9	229.1	229.1	222.9
82.5°	83.3	85.4	93.7	108.3	122.9	133.3	147.9	158.3	166.6	164.5	160.4
85°	43.7	43.7	52.1	64.6	75.0	85.4	85.4	79.1	75.0	64.6	60.4
87.5°	14.6	12.5	16.7	16.7	14.6	16.7	16.7	18.7	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)